Notice of Allowability	Application No.	Applicant(s)	
	09/832,795	KAWASE, TAKEO	
	Examiner	Art Unit	
	Matt P Hodges	2879	

-- Th MAILING DATE of this communication appears on th cover sh et with th correspond nce address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed 5/10/2004*.

2. ☒ The allowed claim(s) is/are *1-3, 5-17, 19-23, and 25-53*.

3. ☒ The drawings filed on *12 April 2001* are accepted by the Examiner.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☒ All b) ☐ Some* c) ☐ None of the:
      1. ☒ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachm nt(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 3/11/2004
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Response to Amendment

The Amendment, filed on 05/10/2004, has been entered and acknowledged by the Examiner.

Cancellation of claims 4, 18 and 24 has been entered.

Election/Restrictions

Claim 1 is directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 15-17, 19, and 20, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Claims 15-17, 19, and 20 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Since all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement made in Paper No. 7 is hereby withdrawn.

Allowable Subject Matter

Claims 1-3, 5-17, 19-23, and 25-53 are allowed

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 1, and specifically comprising the limitation of a light emitting device including a corrugation on a light

emitting layer that is in contact with the corrugation of a polymer layer formed over a transparent electrode.

Regarding claims 2, 3, 5-14, claims 2, 3, 5-14 are allowable for the reasons given in claim 1 because of their dependency status from claim 1.

Regarding claim 15, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 15, and specifically comprising the limitation of a method of manufacturing a light emitting device including a corrugation on a light emitting layer that is in contact with the corrugation of a polymer layer formed over a transparent electrode.

Regarding claims 16, 17, 19, and 20, claims 16, 17, 19, and 20 are allowable for the reasons given in claim 15 because of their dependency status from claim 15.

Regarding claim 21, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 21, and specifically comprising the limitation of a light emitting device including a corrugation on a light emitting layer where the light emitting layer is formed from a polyflourine derivative and where the pitch of the corrugation adheres to the equation $\Lambda = v\lambda_0 / n\sin\Theta_m$.

Where Λ is the pitch, Θ_m is the angle of reflection from the upper and lower surfaces of the layers of light emitting material of light propagation in a wave guide mode m in the light emitting material, λ_0 is the output wavelength, and n and v are integers.

Regarding claims 22, 23, 25-28 and 30, claims 22, 23, 25-28 and 30 are allowable for the reasons given in claim 21 because of their dependency status from claim 21.

Regarding claim 29, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 29, and specifically

comprising the limitation of a light emitting device including a corrugation on a light emitting layer where the light emitting layer is formed from a polyflourine derivative and where the corrugation has the structure of a chirping grating.

Regarding claims 47-53, claims 47-53 are allowable for the reasons given in claim 29 because of their dependency status from claim 29.

Regarding claim 31, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 31, and specifically comprising the limitation of a light emitting device including a corrugation on a light emitting layer where the pitch of the corrugation adheres to the equation $\Lambda = v\lambda_0 / n\sin\Theta_m$.

Where Λ is the pitch, Θ_m is the angle of reflection from the upper and lower surfaces of the layers of light emitting material of light propagation in a wave guide mode m in the light emitting material, λ_0 is the output wavelength, and n and v are integers.

Regarding claims 32-39, claims 32-39 are allowable for the reasons given in claim 31 because of their dependency status from claim 31.

Regarding claim 42, the references of the Prior Art of record fails to teach or suggest the combination of the limitations as set forth in claim 42, and specifically comprising the limitation of a light emitting device including a corrugation on a light emitting layer where the corrugation has the structure of a chirping grating.

Regarding claims 43-46, claims 43-46 are allowable for the reasons given in claim 42 because of their dependency status from claim 42.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matt P Hodges whose telephone number is (571) 272-2454. The examiner can normally be reached on 7:30 AM to 4:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7382 for regular communications and (703) 308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

mph

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